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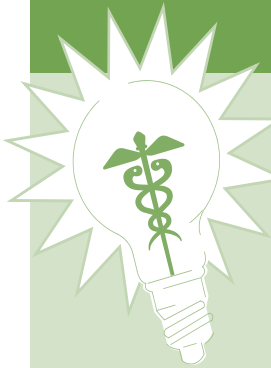
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CURRENTS



DR. WATTS' BRILLIANT SAVINGS

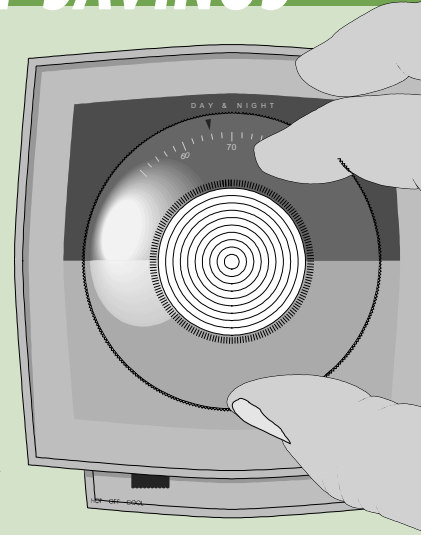
et al., Winter 2003

Know Your Numbers!

Set your thermostat at 69°F or less during the day and 60°F or less at night (or when you leave your home for more than 4 hours). BUT, if you have an electric heat pump, don't set your thermostat back more than 5°F. If the house cools because of a thermostat setback, the heat pump's backup electric resistance heat is forced to operate and raise the temperature. Your electricity costs will rise and no savings will result.

And after turning your thermostat down, if you get chilly, try putting on a sweater. At night, sleep under an extra blanket or two. And if you do turn your thermostat up, don't set it higher than normal in hopes that it will heat your home faster. It won't!

Finally, protect your thermostat from open windows and drafts – cool air will make your home heating system work harder.



Campus Heating Costs Soar!

As many readers are aware, our campus is heated by steam. We buy this steam from TRIGEN Philadelphia Energy Corporation, as there are no boilers or stacks/chimneys on campus. TRIGEN produces steam by burning natural gas in boilers located at their Grays Ferry plant along the Schuylkill River. The steam is then distributed throughout the downtown area in insulated piping buried beneath the street.

Purchased steam costs have always been high but, due to the rising cost of natural gas, have now become the largest cost item in our energy budget.

This winter, help us lower steam use on campus. Search for both big and little ways to cut our heating bill. Don't keep exterior doors OPEN unnecessarily. If you have access to a thermostat, keep it at 68°F to 70°F and try wearing a sweater rather than raising the thermostat.

Most importantly, if you feel that the temperature setpoint is not lowered at the end of the day in areas that will be unoccupied overnight and/or throughout the weekend, call the Energy Services Department, x3-6099. And as ever, report any steam leaks at once.

Another Energy Upgrade Completed in TJUH Buildings

Thomas Jefferson University Hospital has recently completed another phase of energy efficiency upgrades to its buildings. This includes the installation of more than 600 lighting controls; including wall switch occupancy sensors, ceiling sensors and timers. There also were many water saving devices installed such as: 100 low flow toilets, 240 retrofit kits, 960 faucet aerators and 10 sterilizer water control kits.

We also installed heat recovery tanks in the Main, Pavilion and Gibbon Buildings. The waste heat in the steam condensate is used to pre-heat the incoming domestic hot water, saving steam to heat our hot water. We also installed 100 additional energy efficient steam traps and 83 thermal blankets to save on steam use. These projects cost \$903,000 and will save \$192,000 per year for a simple payback of 4.7 years.

On the Home Front

Button Up Your Home...

Last winter, we got Anchorage's weather. Each of us probably spent about two-thirds of our energy dollars on heat. This winter, who knows?

So, should we rush out and buy a super-efficient furnace or boiler? Not necessarily.

Replacing an aging heating system with a more efficient one is a wise step, but it shouldn't be your first step. Initially, try to lower your need for heat. Tighten up. Weatherstrip. Caulk. And, by all means, insulate.

Your primary defense against heat loss through your home's envelope is insulation. However, adding insulation into a house after its built is 'easier said than done'. Heat rises, so insulation under the roof is critical.

Attics are relatively easy to insulate, but, if you live in a row home with a flat roof, then access to the crawlspace above the ceiling of your top floor is an issue. Here, you'll need a reputable contractor but the trouble and expense will be well worth it.

Due to their large area, walls are important, too. Hold your hand up to an interior wall and then to an exterior wall. If the exterior wall is colder, then your home would benefit from additional insulation.

No moving parts, no maintenance and dollars in your pocket – you gotta love it! Insulation is the Christmas gift that keeps on giving – to you and the environment!

After the Christmas gifts are unwrapped and your children are looking for something interesting to do during their Christmas break, get them to log on to a new web site, introduced by the U.S. Department of Energy. At www.energysavers.gov, children will take a virtual tour of a house and determine ways to save energy. It's a great way to get your children to participate in conservation efforts on the home front.

Bright Ideas



Rich Osowski and Joe Mosco from the Facilities Services Department are seen here upgrading multiple air handler controls in the Main Building that were installed in the 1970's to new state of the art Building Automation Controls. This is part of the Capital Plan to upgrade many pieces of equipment in our hospital buildings. This will improve operation of the equipment, save energy, improve temperature control, provide better feedback to our control room for troubleshooting and unite all of our major equipment into one control system.

Special Giveaway!



Put on your thinking caps, because we've got a special gift for that person who submits the best idea for saving energy on campus. When you get a bright idea about saving energy – contact me, Randy Haines at x3-6099 or Randolph.Haines@jefferson.edu. If your idea is implemented, your smiling face will grace our next newsletter and you'll receive a great compact fluorescent lamp to help cut your electric bill at home.

In addition, that person who submits the best idea will also receive a copy of "Consumer Guide to Home Energy Savings", published by the American Council for an Energy-efficient Economy. This book is packed with energy-saving ideas for cutting energy use at home. **The deadline for submittals is Earth Day, April 2004.**

Savings at Work – Center City Campus

July – Sept. 2003	Budget	Actual	Prior Year Actual
Electricity	\$2,242,900	\$2,251,865	\$2,186,070
Steam	713,000	963,413	615,271
Water	323,625	138,430	245,360



Look for the EPA's Energy Star label on products that use less energy, save money on your utility bills and help protect the environment.



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